

WHAT IS CLAIMED IS:

1. A magnetic tape cartridge comprising:
  - a reel around which a magnetic tape is wound;
  - 5 a cartridge case which houses said reel in a locked position;
  - a release pad for releasing locking of said reel; and
  - a cup-like hub of said reel in which said release pad is mounted,wherein a plurality of guide holes for allowing a plurality of lock release pins to penetrate therein, which extend from the lower surface of said release pad,  
10 are made in the periphery of a base plate of said cup-like hub, and a plurality of pairs of guide ribs, which are capable of guiding said plurality of lock release pins to said plurality of guide holes, stand inside said cup-like hub corresponding to said plurality of guide holes.
- 15 2. The magnetic tape cartridge according to claim 1, wherein the gap of each of said pairs of guide ribs is enlarged in a direction of the approach of each said lock release pin so that each of said pairs of guide ribs may guide each said lock release pin to each said guide hole smoothly.
- 20 3. The magnetic tape cartridge according to claim 1, wherein each said guide rib projects from the base plate of said cup-like hub.
4. The magnetic tape cartridge according to claim 1, wherein each said guide rib projects from the base plate and a cylindrical wall of said cup-like  
25 hub, lying across the former and the latter.

5. A magnetic tape cartridge comprising:

a reel around which a magnetic tape is wound;

a cartridge case which houses said reel in a locked position;

a release pad for releasing locking of said reel; and

5 a cup-like hub of said reel in which said release pad is mounted, said release pad comprising:

a main pad which possesses a plurality of corners facing the inner surface of a cylindrical wall of said cup-like hub; and

a plurality of lock release pins which extend from the lower surfaces of  
10 the corners of said main pad and penetrate a base plate of said cup-like hub, wherein the inner circumference of a flange, which is placed on the opening side of said cup-like hub, overhangs the inner surface of a cylindrical wall of said cup-like hub and a plurality of cutouts are provided on the inner circumference of said flange, which permit each corner of said release pad to  
15 pass in an approximately horizontal position in the axial direction of said reel.

6. The magnetic tape cartridge according to claim 5, wherein each said cutout is located so that each said cutout faces each guide hole made on the base plate of said cup-like hub for each said lock release pin to penetrate.

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7. A magnetic tape cartridge comprising:

a cup-like hub; and

a reel in which parts of the magnetic tape cartridge are mounted near the inner surface of a cylindrical wall of the cup-like hub,

25 wherein said reel comprises:

an upper flanged hub in which an upper flange is integrally molded with

the end of an opening of said cup-like hub; and

a lower flange which is fixed to a base plate of said cup-like hub.

8. A magnetic tape cartridge comprising:

5 a cup-like hub; and

a reel in which parts of the magnetic tape cartridge are mounted near the inner surface of a cylindrical wall of the cup-like hub, wherein said reel comprises:

10 a lower flanged hub in which a lower flange of a disk-like plate is integrally molded with the outer circumference of a base plate of said cup-like hub; and

an upper flange of a disk-like plate which is fixed on the end of an opening of said cup-like hub,

15 wherein a fitting rib for centering said upper flange with said lower flanged hub projects from said upper flange around the inner circumference, and the inner diameter of the end of the opening of said cup-like hub is increased by reducing the thickness of the wall of said cup-like hub in order to provide a fitting portion with which said fitting rib is mated.

20 9. A method for assembling a magnetic tape cartridge, the magnetic tape cartridge comprising:

25 a reel wound with a magnetic tape and housed in a cartridge case including a lower flanged hub in which a lower flange of a disk-like plate is integrally molded with the outer circumference of a base plate of a cup-like hub;

an upper flange of a disk-like plate which is fixed to the end of an

opening of the cup-like hub;

a fitting rib which projects from said upper flange around the inner circumference for centering said upper flange with said lower flanged hub; and

a plurality of parts of the magnetic tape cartridge, which are mounted  
5 near the inner surface of a cylindrical wall of said cup-like hub,

said method comprising the steps of:

mounting said parts in said cup-like hub of said lower flanged hub; and

fixing said upper flange on the end of the opening of said cup-like hub.

10 10. The method for assembling a magnetic tape cartridge according to claim 9, wherein said parts comprise a release pad for releasing locking of said reel.

11. A method for determining a relative position of a part of a magnetic tape cartridge comprising at least a pair of parts which is mated one on top of the  
15 other, the method comprising the steps of:

detecting a first horizontal direction of a first part relative to a second horizontal direction of a second part; and

coordinating the directions of said parts by rotating one of said parts based on the detected values.

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12. The method for determining a relative position of a part of a magnetic tape cartridge according to claim 11, wherein the first part is a reel of the magnetic tape cartridge and the second part is a release pad for releasing locking of the reel.

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13. The method for determining a relative position of a part of a magnetic

tape cartridge according to claim 11, wherein the first part is said release pad for releasing locking of said reel and the second part is said reel of the magnetic tape cartridge.

5     14.   The method for determining a relative position of a part of a magnetic tape cartridge according to claim 12, wherein the position of said release pad is determined by detecting a chuck guide hole provided on said release pad by a photoelectric sensor.

10    15.   The method for determining a relative position of a part of a magnetic tape cartridge according to claim 13, wherein the position of said release pad is determined by detecting a chuck guide hole provided on said release pad by a photoelectric sensor.